



CHEMISTRY >> Transition Elements

Q 1

Which of these are coinage metals ?

A

Au

B

Ag

C

Cu

D

All of these

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Q 2

In which phase S_N2 reactions are favored?

A

Solid

B

Liquid

C

Gas

D

All of these

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Q 3

Strong Electrolytes are those which ionizes

A

Slowly

B

Do not ionize

C

Ionize rapidly

D

None of these

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Q 4

The chemical reactivities of elements, depend upon their characteristics electronic_____

A

shields

B

forces

C

configurations.

D

shells

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Q 5

The spreading of a fragrance of a rose or a scent is due to the process called

A

Effusion

B

Diffusion

C

mixing

D

none of these

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Q 6

The negative ions having group of atoms is/are

A

 OH^-

B

 CO_3^{2-}

C

 $\text{Cr}_2\text{O}_7^{2-}$

D

all of these

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Q 7

In general Photochemical reactions are of order

A

1

B

3

C

2

D

0

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Q 8

Which of the following is an example of free radical?

A

 $\text{Br}^{\cdot}$

B

 Br^-

C

 Br

D

 Cl_2

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Q 9 Both ketones and aldehyde are present in_____?

A Sugars

B Menthone

C Camphor

D Formamint

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Q 10 H bonding is not present in which of the following_____?

A

DNA

B

Proteins

C

Carbohydrates

D

Lipids

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Q 11 The formula of Chile Saltpeter is

A NaNO_3

B CaCO_3

C $\text{Ba}(\text{NO}_3)_2$

D NH_4Cl

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Q 12

Which of the following intermolecular forces are present between octane molecules ?

A

London dispersion forces

B

Dipole dipole forces

C

Debye forces

D

H-Bonding

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Q 13

An ordinary microscope can measure the size of an object up to or above

A

25 nm

B

45 nm

C

5 nm

D

6 nm

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Q 14

Which of the following properties is not related to transition metals _____?

A

Complex formation

B

Color

C

Fixed valency

D

d-orbital

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Q 15 Acetic acid is also named as _____?

A Propanoic acid

B Butanoic acid

C Ethanoic acid

D Methanoic acid

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Q 16

What is the octane number of Iso-octane?

A

40

B

100

C

0

D

2

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Q 17

The formula for calculating electron in subshells or sub energy levels is

A

$2l+1$

B

$2(l+1)$

C

$2(2l+1)$

D

$2(2l-1)$

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Q 18

Which of the following reaction can be used to prepare Symmetrical alkanes?

A

Reduction reaction

B

Kolb's reaction

C

Clemmensen Reaction

D

Hydrogenolysis

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Q 19

Electrolyte can be in

A

Plasma state

B

Solution or Fused state

C

Solid form

D

Gaseous State

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Q 20

Carbonyl system having no alpha hydrogen undergoes _____?

A

Aldol condensation

B

Cannizzaro reaction

C

Haloform reaction

D

Oxidation reaction

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Q 21 Which one of the following carbonate is water-insoluble?

A Na_2CO_3

B K_2CO_3

C $(\text{NH}_4)_2\text{CO}_3$

D CaCO_3

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Q 22 At higher altitudes water boils at _____ Boiling point?

A Higher

B Lower

C 100°C

D 0°C

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Q 23

The reactivity of alkenes is due to the presence of?

A

Sigma bond

B

Two Pi bond

C

One Pi bond

D

Due to electrophilic nature

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Q 24

Plasma is difficult to maintain at

A

low temperature

B

high temperature

C

low pressure

D

high pressure

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Q 25

Brittleness of Ionic solids is due to the fact that Ions arrange themselves in way to,

A

Attract each other

B

Compress

C

Repel

D

overlap each other

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Q 26

Nucleophilic reactions of carboxylic acids are due to_____?

A

Presence of OH bond

B

Presence of C-O single bond

C

Presence of C-O double bond

D

None of these

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Q 27

The hydrocarbon in which all the 4 valencies of carbon are fully occupied is called as _____

A

Alkene

B

Alkyne

C

Alkane

D

Cycloalkane

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Q 28

Plasma includes ions

A

protons

B

electrons

C

neutrons

D

all of these

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Q 29 The self Linkage ability of Carbon is called as_____?

- A Polymerization
- B Substitution
- C Sequential Carbonation
- D Catenation

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Q 30

With which of the following Grignard reagents react to form Alkanes ?

A

Ammonia

B

Water

C

Methanol

D

All of these

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Q 31 Which of the following alkyl halide give S_N1 reactions?

A 1-chloropropane

B 2-chloropropane

C n-butyl chloride

D 2-methyl,2-chloropropane

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Q 32

Which type of forces are present between acetone and chloroform?

A

H-bonding

B

Dipole-Dipole forces

C

London dispersion forces

D

Debye forces

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Q 33

when P and T are kept constant, $V = R nT/P$ this is called

A

Boyle's law

B

Charles's law

C

Avogadro's law

D

Pascal's law

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Q 34

The atoms of hemoglobin is heavier than H-atoms

A

67,000 times

B

68,000 times

C

65,000 times

D

69,000 times

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Q 35

In a reaction having both alkyl halide and base, the base will attack on_____?

A

Electrophilic carbon

B

Nucleophilic carbon

C

beta-hydrogen

D

None of these

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Q 36

Which of the following compound is an amide?

A

 NH_4CNO

B

 NH_2COCH_3

C

 NH_2CONH_2

D

 $\text{NH}_2\text{COONH}_2$

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Q 37

A polymer called Bakelite is formed by reaction of phenol with

A

hydrogen

B

ethers

C

carboxylic acid

D

formaldehyde

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Q 38

Near completion of a chemical reaction average rate is

A

Lower than instantaneous rate

B

higher than instantaneous rate

C

Equal to instantaneous rate

D

None of these

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Q 39

The probability of finding an electron between s-orbital is zero. This place is called _____ plane.

A

nodal

B

antinodal

C

non nodal

D

erect

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Q 40

Which of the following reaction of carbonyl system is used to distinguish between carbonyl system from alcohols?

A

Cyanohydrin formation

B

Bisulfite adduct formation

C

Haloform formation

D

None of these

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Q 41

Sum of oxidation numbers of all the molecules in a neutral atom is

A

Unity

B

negative

C

1

D

Zero

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Q 42

The formation of acid anhydride from carboxylic acid is a_____?

A

Dehydration reaction

B

Condensation reaction

C

Both a and b

D

None of these

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Q 43

In the reaction; $\text{Zn} + \text{CuSO}_4 \rightarrow \text{ZnSO}_4 + \text{Cu}$, Which of the following change shoes that redox reaction takes place at once ?

A

Blue color appears

B

Blue color disappears

C

Temperature of the surrounding decreases

D

None of these

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Q 44

which of the following does not have sp^2 hybridized orbital

A

acetone

B

acetonitrile

C

acetic acid

D

acetamide

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Q 45 ΔH_f° of which of the following can not be measured directly?

A Al_2O_3

B B_2O_3

C CO

D All of these

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Q 46

Which of the following alkyl halide is most reactive towards Mg atom?

A

Alkyl bromide

B

Alkyl fluoride

C

Alkyl chloride

D

Alkyl iodide

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Q 47

Alkali and alkaline earth metals impart colours when heated over the burner, it is due to

A

Smaller electronegativity of alkali metals

B

The smaller ionic radius of these metals

C

De-excitation of electrons from higher energy levels to low energy level

D

Excitation of electrons from low energy levels to higher energy levels

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Q 48

If a graph is plotted between pressure on x- axis and volume on y- axis for Boyle's law verification, the curve obtained is called

A pseudotherm

B isotherm

C biotherm

D all of these

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Q 49

Alkenes have which type of hybridization?

A

 sp^2

B

 sp^3

C

 sp^2d

D

 sp

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Q 50

Higher order reactions has half-life

A

same as first order

B

Different from first order reactions

C

Directly proportional to Concentration of reactants

D

None of these

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Q 51

In Which of the following reaction of carboxylic acids only C=O group involved in bonding and OH group is replaced ?

A

Reaction of carboxylic acid with NaOH

B

Reaction of carboxylic acids with Carbonate

C

Formation of anhydride

D

Reaction of carboxylic acids with SOCl_2

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Q 52

The electronegativity difference of the elements can be related to the following property of bonds

A

dipole moment

B

bond energies

C

both A & B

D

none of these

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Q 53 Half-life period for a first order reaction is independent of

- A Conditions of temperature
- B Initial Concentration of the compound
- C Presence of Catalyst
- D All of these

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Q 54

Proteases enzyme are example of:

A

Lyases

B

Hydrolases

C

Ligases

D

Transferases

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Q 55

At which temperature water has maximum density?

A

2°C

B

4°C

C

0°C

D

<0°C

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Q 56

The covalent crystals having giant molecules are insoluble in all the solvents

A

Silicone carbide

B

diamond

C

both A & B

D

none of these

55

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Q 57

Half life of a radiation active element is that period in which half of the atoms

A

diffuse

B

decompose

C

disturbed

D

decay

56

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Q 58

The angular displacement is assigned positive sign when the rotation is

A

Clockwise

B

Anti-clockwise

C

perpendicular

D

parallel

57

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Q 59

Joule - second is the unit of:

A

Energy

B

Heat

C

Work

D

Planck's constant

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Q 60

Which surface will reflect more light

A

silver painted

B

black painted

C

brown painted

D

black painted

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Q 61

The basic reason why a full wave rectifier has twice efficiency than half wave rectifier because

A

it uses transformer

B

its ripple factor is much less

C

it uses both cycle as input

D

Output frequency is double the line frequency

60

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Q 62

The SI unit of electric intensity is:...

A

volt / meter

B

newton / meter

C

tesla

D

coulomb / meter

61

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Q 63

During the circular path in magnetic field, what is the magnetic force

A

$$F = qB$$

B

$$F = qB^2$$

C

$$F = qB/v$$

D

$$F = qvB$$

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Q 64

Critical angle is the angle of incidence in the denser medium for which the angle of refraction in the rarer medium is equal to:...

A

0 deg

B

angle of incidence

C

twice the angle of incidence

D

90 deg

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Q 65

If alpha, beta, and gamma rays carry the same momentum, which has the longest wavelength?

A

alpha rays

B

beta rays

C

gamma rays

D

all have same wavelength

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Q 66

If a force of 2 N is applied on charge of Coulomb, the electric field becomes

A

 $3/2 \text{ N/C}$

B

 $2/3 \text{ N/C}$

C

 $1/2 \text{ N/C}$

D

none of these

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Q 67

Michelson's interferometer works on the principle of:

A

interference of light

B

refraction of light

C

reflection of light

D

diffraction of light

66

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Q 68

If the velocity of an object is increasing with time then acceleration is

A

negative

B

positive

C

zero

D

none of the above

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Q 69

A three dimensional image is achieved by scanning the surface with a focused beam of electrons

A

SEM

B

TEM

C

XRD

D

none of these

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Q 70

Static charge always creates

A

electric field and magnetic field

B

electromagnetic wave

C

electric field

D

Both a) and b)

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Q 71

Principle of electric generator is based on

A

biot savart's law

B

ampere's law

C

newton's law

D

faraday law

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Q 72

The molar specific heat of a diatomic gas is measured at constant volume and found to be $29.1 \text{ J/mol} \cdot \text{K}$. What are the types of energy that are contributing to the molar specific heat?

- A translation only
- B translation and rotation only
- C translation and vibrational only
- D translation, rotation, and vibrational

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Q 73

For angular acceleration clockwise rotations means torque is

A

positive

B

negative

C

zero

D

infinite

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Q 74

1 joule is equal to

A

 10^4 erg

B

 10^5 erg

C

 10^6 erg

D

 10^7 erg

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Q 75

When bulb is turned on, ohm's law is applicable

A

Yes

B

No

C

partly

D

None of these

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Q 76

Transformation ratio of transformer is given by

A

 V_s/V_p

B

 I_p/I_s

C

 N_s/N_p

D

all of these

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Q 77

The distance and displacement can be equal if...

A

an object moves on a circular path

B

an object oscillates

C

an object moves in a straight line

D

an object moves on a parabolic path

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Q 78

PD stands for

A

Potential difference

B

Potential deviation

C

Power difference

D

Power dissipated

77

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Q 79

A man move a roller through a distance of 20 m. 10 N of applied force is inclined at 60 degree of direction of motion what will be the work done by the man

A

100 J

B

50 J

C

-100 J

D

-50 J

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Q 80

What is the angular frequency during the circular motion?

A

 qm/B

B

 m/qB

C

 qB/m

D

 qmB

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Q 81

An angular velocity of 60 revolutions per minute is the same as:

A

 $1/2\pi \text{ rad/s}$

B

 $120\pi \text{ rad/s}$

C

 $30/\pi \text{ rad/s}$

D

 $2\pi \text{ rad/s}$

80

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Q 82

The condition for the validity of Ohm's law is that the

A

Temperature should remain constant

B

Current should be proportional to voltage

C

Resistance must be wire wound type

D

All of the above

81

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Q 83

A body moves a distance of 10 m along a straight line under the action of 5 N force. If work done is 25 J, then angle between the force and direction of motion of the body will be:

A

 75°

B

 60°

C

 45°

D

 30°

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Q 84

The Davisson Germer experiment is used to explain

A

interference

B

polarization

C

diffraction

D

none of these

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Q 85

In medical scanning _____ rays are used

A

photon

B

x

C

beta

D

white

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Q 86

The ratio: gravitational force ----- is always:... electric force

A

greater than unity

B

less than unity

C

equal to unity

D

zero

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Q 87

white light gives spectrum after occurring

A

diffraction

B

interference

C

reflection

D

all of these

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Q 88

The points which are in phase are separated from one another through a distance of :

A

1 wavelength

B

1.5 wavelength

C

0.5 wavelength

D

2.5 wavelength

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Q 89

Consider a charge q is placed in a region where both electric and magnetic fields are present. The charge will experience:...

A both electric and magnetic forces

B only electric force

C only magnetic force

D no force at all

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Q 90

According to Wien's law temperature and wavelength are ____ related

A

equal

B

inversely

C

directly

D

none of these

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Q 91

How many quarks in electron

A

0

B

1

C

2

D

3

90

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Q 92

Transistors can be used as

A

half wave rectifier

B

full wave rectifier

C

both

D

none of these

91

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Q 93

When a particle is launched at angle 90 degree with respect to horizontal then vertical acceleration is

A

 -9.8 m/s^2

B

 9.8 m/s^2

C

0

D

 5 m/s^2

92

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Q 94

Ripple factor of full wave rectifier is

A

1.21

B

0.6

C

0.482

D

0.9

93

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Q 95

Michelson's interferometer is an instrument that can be used to measure:

A

speed

B

frequency

C

distance

D

amplitude

94

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Q 96

The Na atom cannot produce x-rays because

A

inner shell transition is possible

B

inner shell transition is not possible

C

it is non radioactive

D

none of these

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Q 97

Ohm's law is valid when the temperature of conductor is :

A

very low

B

very high

C

varying

D

constant

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Q 98

Most widely used rectifier is

A

half wave rectifier

B

full wave rectifier

C

bridge rectifier

D

none of them

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Q 99

If the magnitude of charges on two point objects and the distance between them is doubled, then force will be:...

A two times

B four times

C unchanged

D halved

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Q 100

Magnetic field is very strong where field lines are

A

zero

B

far apart

C

very close

D

none of these

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Q 101

100 W heater is used for 5 minutes to heat some water from 20°C to 50°C. What is the mass of water which is heated? Specific heat capacity of water is 4.2 J/g°C.

A

4 g

B

40 g

C

240 g

D

24 g

100

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Q 102

Amount of heat supplied to 0.02 kg of nitrogen to raise its temperature by 45 degree is

A

935J

B

934J

C

967J

D

954J

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Q 103

A force $F = (0.5x + 10)$ N acts on a particle, calculate the work done by the force in displacing particle from $x=0$ to $x=2$ m

A 20 J

B 21 J

C 22 J

D 23 J

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Q 104

A particle radioisotope has a half life of 5 days. In 15 days the probability of decay in percentage will be

A

67 %

B

87.5 %

C

82.5 %

D

77 %

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Q 105

In a periodic wave, the distance between a crest and the next consecutive trough is 15 cm. What is the wavelength of the wave?

A 10 cm

B 5 cm

C 7.5 cm

D 30 cm

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Q 106

What will be the de - Broglie wavelength when the kinetic energy of the electron increases by 5 times?

A

 $\sqrt{5}$

B

5

C

 $1/\sqrt{5}$

D

 $1/5$

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Q 107

Electrical power is given by $P =$

A

 VI

B

 $I^2 R$

C

 V^2 / R

D

all

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Q 108

Which one of the following is not found in a DC generator?

A

armature

B

slip rings

C

Commutators

D

magnets

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Q 109

Which set of elements have three isotopes

A

O,H

B

O,Cl

C

Cl,Hg

D

All of them

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Q 109

Which set of elements have three isotopes

A

O,H

B

O,Cl

C

Cl,Hg

D

All of them

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Q 109

Which set of elements have three isotopes

A

O,H

B

O,Cl

C

Cl,Hg

D

All of them

108

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Q 110

The good absorbers of heat normally are

A

poor conductor

B

good conductor

C

poor reflector

D

none of these

109

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Q 111

Find angular acceleration when $\Delta\omega$ is 250 rpm and Δt is 5.00 s.

A

5.24 rad/sec²

B

6 rad/sec²

C

10 rad/sec²

D

none of these

110

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Q 112

A full wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A 100 Hz

B 25Hz

C 50Hz

D 200Hz

111

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Q 113

In mixed inhibition, the allosteric affect effects

A

shape of substrate

B

shape of inhibitor

C

shape of enzyme

D

none of these

112

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Q 114

The name animal is derived from what word?

A

Aname

B

Anemia

C

Anima

D

none of these

113

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Q 115

The area on the left hemisphere related to speech is called?

A

Amygdala

B

Broca's area

C

hypothalamus

D

occipital lobe

114

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Q 116 Higher turgor pressure in a plant cell is maintained by?

A Higher ionic concentration inside vacuoles

B Higher osmotic pressure of the cell vacuole

C Large number of vacuoles in a plant cell

D both a and b

115

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Q 117

Where the heterozygote is indistinguishable from one of the homozygotes the allele involved is said to be?

A

recessive

B

dominant

C

both a and b

D

none of these

116

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Q 118 Which of the following is not respiration?

A Breakdown of glucose

B Formation of glucose

C Release of energy

D Exchange of gases

117

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Q 119

Placenta is important as its function is to:

A

exchange oxygen

B

exchange carbon dioxide

C

exchange nutrients

D

All A,B and C are correct

118

SKIPPED QUESTIONS



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Q 120

Mating between relatives is called which of the following?

A

ex breeding

B

breeding

C

inbreeding

D

outbreeding

119

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Q 121

Centipedes belong to class _____ of arthropoda.

A

Arachnida

B

Insecta

C

Cephalopoda

D

Myriapoda

120

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Q 122

Amoeboid movements and movement of cyclosis is due to?

A

microfilaments

B

microtubules

C

intermediate filaments

D

cytoskeleton

121

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Q 123

What percentage of protein is found in the cell membrane?

A

20-4

B

40-50

C

60-80

D

90

122

SKIPPED QUESTIONS 

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Q 124

Bottlenecks increases the affect of which of the following?

A

genetic linkage

B

genetic expression

C

genetic diversity

D

gene pool

123

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Q 125

A surfactant is essential for:

A

efficient gas exchange

B

maintaining structural integrity of alveoli

C

Both A and B

D

None of these

124

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Q 126

Which factors affect the female reproductive cycle?

A

Malnourishment

B

emotional stress

C

Both A and B

D

None of these

125

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Next Question 

Q 127

Choose the region/s of spinal cord:

A

cervical

B

thoracic

C

lumbar

D

All of these

126

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Next Question >

Q 128

Smallpox was caused by which virus?

A

Adenovirus

B

Pox virus

C

influenza Virus

D

variola virus

127

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Q 129

Antibodies can be digested by using which of the following types of enzymes?

A

Lipase

B

Protease

C

Amylase

D

Polymerase

128

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Q 130

Reverse transcriptase is a useful enzyme to have when

A

RNA virus converts its RNA to DNA

B

there are no host cells present

C

nutrients are scarce

D

spikes are forming in the new virus

129

SKIPPED QUESTIONS 

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Q 131

Second largest phylum of invertebrates is which of the following?

A

Porifera

B

Arthropoda

C

Chordata

D

Mollusca

130

SKIPPED QUESTIONS



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Next Question >

Q 132

Homozygous chromosomes include which of the following?

A

diploid cells

B

polyploid cells

C

both a and b

D

none of these

131

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Q 133

Sertoli cells are responsible for which of the following?

A

Provide liquid medium to cells in testes

B

Provide protection and nourishment to cells

C

Secrete testosterone

D

both a and b

132

SKIPPED QUESTIONS 

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Next Question >

Q 134

Skeletal muscle is composed of cells collectively referred to as

A

Muscle fibrin

B

Muscle fibers

C

Sarcomere

D

None of these

133

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Q 135

If we add more substrate to already occurring enzymatic reaction and it has no affect on the rate of reaction, the process is called?

A denaturation

B saturation

C composition

D inhibition

134

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Q 136

Somatic cells of humans have how many pairs of chromosomes in total?

A

10

B

23

C

24

D

48

135

SKIPPED QUESTIONS 

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Q 137

Which of the following characteristics make plasmid DNA useful for researchers?

A

Readily incorporate cloned DNA

B

Capable of autonomous replication

C

Capable of being isolated from genomic DNA

D

all of these

136

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 138

The enzyme which plays important role in HIV pathogenesis

A

RNA polymerase I

B

DNA polymerase II

C

Reverse Transcriptase I

D

Reverse Transcriptase

137

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Next Question 

Q 139

Maximum capacity of hemoglobin to absorb oxygen is:

A

19.6ml/100 ml blood

B

20 ml/100 ml blood

C

25 ml/100 ml blood

D

30 ml/100 ml blood

138

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Next Question 

Q 140

What are parts of Lamarck's theory of evolution?

A

Individuals lose traits that they don't need

B

Acquired characteristics are heritable

C

Individuals gain characteristics they need

D

All of these

139

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Q 141

One of these animals is a prototherian.

A

Alligator

B

Penguin

C

Porcupine

D

Spiny anteater

140

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Q 142

What is the length of duodenum in cm?

A

15-20

B

20-25

C

21-25

D

25-30

141

SKIPPED QUESTIONS



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Next Question >

Q 143

A human female produce how many oocytes in each of her ovary?

A

30000

B

200000

C

300000

D

20000

142

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Q 144

The graph that shows relative effectiveness of different wavelengths in photosynthesis is?

A

actin spectrum

B

action spectrum

C

absorption spectrum

D

emission spectrum

143

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Q 145

What is produced in the muscle cells during extreme physical activity?

A

Acetyl coA

B

alcohol

C

lactic acid

D

all of these

144

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Next Question >

Q 146

Human testes are packed with how many seminiferous tubules?

A

200

B

300

C

500

D

600

145

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Q 147

Enzymes for light-dependent reactions of photosynthesis would most likely be associated with:

A

Outer membrane of the chloroplast

B

Inner membrane of the chloroplast

C

Stroma of the chloroplast

D

Thylakoid membranes of the chloroplast

146

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Q 148

The simplest form of learning is?

A

latent learning

B

imprinting

C

insight

D

habituation

147

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Q 149

Which of the following part of the cell is described as a fluid mosaic?

A

chloroplast

B

vacuole

C

cell membrane

D

ER

148

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Q 150

How many pair of ribs are present in chest wall?

A 10

B 11

C 12

D 13

149

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Next Question 

Q 151

The spinal cord and spinal nerve roots are wrapped within three layers called:

A

Pleura

B

Synovial

C

Synapse

D

Meninges

150

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Q 152

The enzyme-substrate complex is formed in which part of the enzyme molecule?

A

Binding site

B

Allosteric site

C

Catalytic site

D

None of the above

151

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Q 153

Which of the following is involved in the conversion of fats to carbohydrates by oxidation of fats?

A peroxisomes

B microsomes

C lysosomes

D glyoxysomes

152

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Q 154

Diameter of thick filament is approximately how many nm?

A

15

B

16

C

17

D

18

153

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Q 155

What type of genetic transfer was displayed in the Frederick Griffith experiment?

A

transduction

B

transformation

C

binary fission

D

conjugation

154

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Q 156

Homology means

A similarity in characteristics resulting from common ancestors

B similarity in function from acquired characteristics

C study of similar organs but with different functions

D study of similar organs but with different functions

155

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Q 157

Cooperation of the two photosystems of the chloroplast is required for ____

A

ATP synthesis

B

reduction of NADP

C

cyclic photophosphorylation

D

oxidation of the reaction center of photosystem I

156

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Q 158

A gas absent during pre-biotic environment was

A

SO₂

B

CO₂

C

NH₃

D

H₂

157

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Next Question >

Q 159

A certain type of plant is only tall when it has a heterozygous genotype. If two heterozygous plants are crossed, what is the probability their offspring will also be tall?

A

25%

B

50%

C

75%

D

1

158

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Q 160

Nerve cells transmit messages faster when they have:

A

Many dendrites

B

Many genes

C

Non-myelinated axons

D

Myelinated axons

159

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Next Question 

Q 161

These are biologically active proteins____

A glycoprotein

B enzymes

C activators

D inhibitors

160

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Q 162

Mantle in molluscs is present over which of the following regions?

A

head

B

dorsal muscular foot

C

dorsal visceral foot

D

both a and b

161

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Q 163

Which of the following scenarios gives both sons and daughters the SAME probability of being born with a disease?

- A The disease is X-linked dominant. A heterozygous mother is crossed with a healthy father.
- B The disease is X-linked dominant. A heterozygous mother is crossed with a father with the disease.
- C The disease is X-linked recessive. A mother with the disease is crossed with a healthy father.
- D The disease is X-linked recessive. A heterozygous mother is crossed with a healthy father.

162

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Q 164

Amount of oxygen in inspired air is 21 % while in expired air is

A

0.11

B

0.12

C

0.15

D

0.16

163

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Next Question 

Q 165

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A

iron

B

zircon

C

diamond

D

cadmium

164

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Q 166

Breathing and heart rate is controlled by which of these?

A

Corpus callosum

B

Hippocampus

C

Medulla

D

Thalamus

165

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Q 167

Ascaris is characterized by which of the following?

A

Presence of true coelom and metamerism

B

Presence of true coelom but the absence of metamerism

C

Absence of true coelom but the presence of metamerism

D

Absence of true coelom and metamerism

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Q 168

Your neighbor has a flower garden in which there are red flowers and white flowers. These flowers are diploid organisms, and flower color is an autosomal trait. The gene for red flowers (R) is dominant, while the gene for white flowers (r) is recessive. Which of the following is the genotype of a white flower?

A

RR

B

Rr

C

rR

D

rr

167

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Q 169

In humans, fertilization involves the addition of chromosomes from the sperm and the egg. The resulting cell is called a?

A zygote

B egg

C embryo

D fetus

168

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Q 170

Which of the following are the part of functional classification?

A

Ellipsoidal

B

Gomphosis

C

Syndesmosis

D

None of these

169

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Q 171

The only promoter of leaf senescence in the following plant hormones is?

A gibberellins

B cytokinins

C auxins

D abscisic acid

170

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Next Question 

Q 172

What is not true about enzyme?

A

The K_{eq} of a reaction remains unchanged in the presence of an enzyme

B

Enzymes speed up the rate of reaction in DNA synthesis

C

Harsh, acidic conditions can completely denature an enzyme

D

An enzyme is completely converted to product during metabolism

171

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Q 173

Growth and development of plant cells is the role of?

A

parenchymatous cells

B

chlorenchymatous cells

C

meristematic cell

D

sclerenchymatous cells

172

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Next Question 

Q 174

Ketone is synthesized in

A

Adipose tissue

B

Liver

C

Muscles

D

Brain

173

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Next Question >

Q 175

The pair of salivary glands located behind the jaws is called:

A

Sublingual gland

B

Submaxillary glands

C

parotid glands

D

adrenal glands

174

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Next Question 

Q 176

In humans, fertilization involves the addition of chromosomes from the sperm and the egg. The resulting cell is called a?

A zygote

B egg

C embryo

D fetus

175

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Q 177

An animal has 80 chromosomes in its gametes, how many chromosomes will be seen in the animal's muscle cells?

A 120

B 240

C 40

D 160

176

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Q 178

Functions of enzymes include all of the following except which of the following?

A

lessening the time required for a reaction to take place

B

shifting substrates into more favorable positions in the active site

C

decreasing the activation energy of a reaction

D

shifting the equilibrium of a reaction

177

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Q 179

The function of a viral capsid is?

A

protection against the viral genome from physical and enzymatic destruction

B

providing binding sites that enable the virus to attach to specific receptor sites on the host cell

C

serving as a vehicle of transmission from one host to another

D

all of the above

178

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Next Question 

Q 180

The animals which belongs to division Radiata is/are?

A triploblastic

B diploblastic

C radioblast

D all of these

179

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Next Question 

Demonstrate correct use of articles and prepositions

Q 181

I borrowed ____ pencil from your pile of pencils and pens.

A

a

B

an

C

the

D

no article

180

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 182

Choose the correct sentence.

A

Belgium and france fought over who would host the olympic games?

B

Belgium and France fought over who would host the Olympic Games.

C

Belgium and France: fought over who would host the Olympic Games!

D

Belgium and France fought over who would host the olympic games.

181

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 183

Measles _____ a contagious childhood disease

A

is

B

are

C

were

D

be

182

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement
Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 184

To walk, biking and driving are Pat's favorite ways of getting around.

A

To walk, biking, and driving

B

Walking, biking, and driving

C

To walk, biking, and to drive

D

Walking, biking, and to drive

183

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Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 185

Choose the correct spelling of the word

A

something

B

somthing

C

sumthing

D

sumthin

184

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Next Question 

Comprehend key vocabulary

Q 186

With this _____ I can get to the roof of he house.

A

index

B

lager

C

ladder

D

step

185

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 187

Choose the correct spelling of the word

A

prettiest

B

prettyest

C

pretiest

D

preetiest

186

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 188

Either of the two dresses shall _____ good.

A

looking

B

look

C

looks

D

looked

187

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 189

how are

A

howre

B

howr'e

C

ho'wre

D

how're

188

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Next Question 

Demonstrate correct use of articles and prepositions

Q 190

One of the students said, " ____ professor is late today."

A

A

B

An

C

The

D

no article

189

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Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 191

A ship (A)/ laden with merchandise (B)/ got drowned (C)/ in the Pacific Ocean. (D)

A

A ship

B

laden with merchandise

C

got drowned

D

in the Pacific Ocean.

190

SKIPPED QUESTIONS 

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Next Question 

Comprehend key vocabulary

Q 192

The Prime Minister is a very _____ man. Everyone follows his orders.

A

powerful

B

circular

C

direct

D

painful

191

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 193

The frogs in the garden _____ very loudly.

A

croak

B

croaks

C

croaking

D

cracked

192

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Next Question >

Demonstrate control of tenses and sentence structure

Q 194

Choose the correct type of tense. "We will visit the museum"

A

Present

B

Past

C

Future

D

None

193

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Next Question 

Comprehend key vocabulary

Q 195

The _____ chosen for the construction of the building is in the heart of the city.

A

cite

B

slight

C

sight

D

site

194

SKIPPED QUESTIONS



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Next Question >

Demonstrate control of tenses and sentence structure

Q 196

Sit down.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

195

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Next Question 

Demonstrate control of tenses and sentence structure

Q 197

Wait a minute please, he _____ on the phone.

A talking

B is talking

C talks

D is talks

196

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Next Question >

Demonstrate control of tenses and sentence structure

Q 198

It _____ (rain) since last night, and it looks as if it may rain all day.

A

raining

B

is raining

C

has been raining

D

rained

197

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 199

The children as well as their mother _____ missing after the floods.

A

is

B

are

C

was

D

were not

198

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Next Question >

Demonstrate correct use of articles and prepositions

Q 200

_____ ozone layer will disappear if we don't find _____ way to save it.

A The...the

B The...an

C The...a

D A... a

199

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Next Question 

Statements and Actions

Q 201

Statement A smoker has left smoking suddenly a. He will feel restlessness and anxiety. b. He will start gaining weight

A

Both of them follows

B

None of them follows

C

Only b follows

D

Only a follows

200

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Dependent Causes/ Independent Causes/

Q 202

Statement: The private medical colleges have increased the tuition fees in the current year by 200 per cent over the last year's fees to meet the expenses. The government medical colleges have not increased their fees in spite of price escalation.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

201

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Verbal Classification

Q 203

If a computer has more than one processor then it is known as ?

A

Uni-process

B

Multiprocessor

C

Multi-threaded

D

Both A and B

202

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Next Question >

Statements and Actions

Q 204

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

203

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Next Question >

Dependent Causes/ Independent Causes/

Q 205

Statement: The prices of petrol and diesel in the domestic market have remained unchanged for the past few months. The crude oil prices in the international market have gone up substantially in the last few months.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of independent causes

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Statement and Argument

Q 206

Statement Should religion be banned? Arguments (I) Yes. It develops fanaticism in people. (II) No, Religion binds people together.

A Only argument I is strong

B Only argument II is strong

C Either I or II is strong

D Neither I nor II is strong

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Statement and Argument

Q 206

Statement Should religion be banned? Arguments (I) Yes. It develops fanaticism in people. (II) No, Religion binds people together.

A Only argument I is strong

B Only argument II is strong

C Either I or II is strong

D Neither I nor II is strong

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Making Judgements

Q 207

A book always has

A

Pages

B

Contents

C

Chapter

D

Images

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Statements and Conclusions

Q 208

1: All clocks are watches. 2: Some clocks are alarms. Conclusion: I: Some Alarms are watches. II: All watches are alarm.

- A Only conclusion (I) follows
- B Only conclusion (II) follows
- C Both conclusions follow
- D Neither conclusion (I) nor conclusion (II) follows

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Logical Games

Q 209

If '-' means '+', '+' means '-', '*' means '÷' and '÷' means '*' then which of the following will be the correct equation?

A $30 + 5 + 14 - 10 * 15 = 122$

B $10 + 5 - 14 \div 10 * 15 = 158$

C $30 - 5 + 14 \div 10 * 15 = 162$

D $30 * 5 - 4 \div 10 + 15 = 31$

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Verbal Reasoning

Q 210

Language with the most alphabets is _____

A

French

B

Chinese

C

Portuguese

D

Urdu

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Q1

If a graph is plotted between pressure on x- axis and volume on y- axis for Boyle's law verification, the curve obtained is called

A

pseudotherm

B

isotherm

C

biotherm

D

all of these

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Q1

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Q1

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Q2

Choose the region/s of spinal cord:

A

cervical

B

thoracic

C

lumbar

D

All of these

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Q3

Ascaris is characterized by which of the following?

A

Presence of true coelom and metamerism

B

Presence of true coelom but the absence of metamerism

C

Absence of true coelom but the presence of metamerism

D

Absence of true coelom and metamerism

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Q4

Ripple factor of full wave rectifier is

A

1.21

B

0.6

C

0.482

D

0.9

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Q5

The ratio: gravitational force ----- is always:... electric force

A

greater than unity

B

less than unity

C

equal to unity

D

zero

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Q6

In which phase S_N2 reactions are favored?

A

Solid

B

Liquid

C

Gas

D

All of these

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Q7

Strong Electrolytes are those which ionizes

A

Slowly

B

Do not ionize

C

Ionize rapidly

D

None of these

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Q8

The chemical reactivities of elements, depend upon their characteristics electronic_____

A

shields

B

forces

C

configurations.

D

shells

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Q9

The spreading of a fragrance of a rose or a scent is due to the process called

A

Effusion

B

Diffusion

C

mixing

D

none of these

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Q10 The negative ions having group of atoms is/are

A OH-

B CO₃²⁻

C Cr₂O₇²⁻

D all of these

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Q11 Which of the following is an example of free radical?

A Br^+

B $\text{Br}^\cdot$

C Br

D Cl_2

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Q12 Both ketones and aldehyde are present in_____?

A Sugars

B Menthone

C Camphor

D Formamint

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Q13 H bonding is not present in which of the following_____?

A

DNA

B

Proteins

C

Carbohydrates

D

Lipids

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Q14

The formula of Chile Saltpeter is

A

 NaNO_3

B

 CaCO_3

C

 $\text{Ba}(\text{NO}_3)_2$

D

 NH_4Cl

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Q15

Which of the following intermolecular forces are present between octane molecules ?

A

London dispersion forces

B

Dipole dipole forces

C

Debye forces

D

H-Bonding

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Q16

An ordinary microscope can measure the size of an object up to or above

A

25 nm

B

45 nm

C

5 nm

D

6 nm

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Q17 Which of the following properties is not related to transition metals _____?

A Complex formation

B Color

C Fixed valency

D d-orbital

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Q18

What is the octane number of Iso-octane?

A

40

B

100

C

0

D

2

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Q19

The formula for calculating electron in subshells or sub energy levels is

A

$$2l+1$$

B

$$2(l+1)$$

C

$$2(2l+1)$$

D

$$2(2l-1)$$

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Q20

Which of the following reaction can be used to prepare Symmetrical alkanes?

A

Reduction reaction

B

Kolb's reaction

C

Clemmensen Reaction

D

Hydrogenolysis

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Q21

Electrolyte can be in

A

Plasma state

B

Solution or Fused state

C

Solid form

D

Gaseous State

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Q22

Carbonyl system having no alpha hydrogen undergoes _____?

A

Aldol condensation

B

Cannizzaro reaction

C

Haloform reaction

D

Oxidation reaction

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Q23

Which one of the following carbonate is water-insoluble?

A

 Na_2CO_3

B

 K_2CO_3

C

 $(\text{NH}_4)_2\text{CO}_3$

D

 CaCO_3

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Q24 At higher altitudes water boils at _____ Boiling point?

A Higher

B Lower

C 100°C

D 0°C

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Q25

Plasma is difficult to maintain at

A

low temperature

B

high temperature

C

low pressure

D

high pressure

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Q26

Brittleness of Ionic solids is due to the fact that Ions arrange themselves in way to,

A

Attract each other

B

Compress

C

Repel

D

overlap each other

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Q27

Nucleophilic reactions of carboxylic acids are due to_____?

A

Presence of OH bond

B

Presence of C-O single bond

C

Presence of C-O double bond

D

None of these

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Q28

The hydrocarbon in which all the 4 valencies of carbon are fully occupied is called as _____

A

Alkene

B

Alkyne

C

Alkane

D

Cycloalkane

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Q29

Plasma includes ions

A

protons

B

electrons

C

neutrons

D

all of these

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Q30 The self Linkage ability of Carbon is called as_____?

A Polymerization

B Substitution

C Sequential Carbonation

D Catenation

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Q31

With which of the following Grignard reagents react to form Alkanes ?

A

Ammonia

B

Water

C

Methanol

D

All of these

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Q32 Which of the following alkyl halide give S_N1 reactions?

A 1-chloropropane

B 2-chloropropane

C n-butyl chloride

D 2-methyl,2-chloropropane

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Q33

when P and T are kept constant, $V = R nT/P$ this is called

A

Boyle's law

B

Charles's law

C

Avogadro's law

D

Pascal's law

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Q34

The atoms of hemoglobin is heavier than H-atoms

A

67,000 times

B

68,000 times

C

65,000 times

D

69,000 times

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Q35

In a reaction having both alkyl halide and base, the base will attack on_____?

A

Electrophilic carbon

B

Nucleophilic carbon

C

beta-hydrogen

D

None of these

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Q36

Which of the following compound is an amide?

A

 NH_4CNO

B

 NH_2COCH_3

C

 NH_2CONH_2

D

 $\text{NH}_2\text{COONH}_2$

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Q37

A polymer called Bakelite is formed by reaction of phenol with

A

hydrogen

B

ethers

C

carboxylic acid

D

formaldehyde

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Q38

Near completion of a chemical reaction average rate is

A

Lower than instantaneous rate

B

higher than instantaneous rate

C

Equal to instantaneous rate

D

None of these

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Q39

The probability of finding an electron between s-orbital is zero. This place is called ____ plane

A

nodal

B

antinodal

C

non nodal

D

erect

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Q40

Sum of oxidation numbers of all the molecules in a neutral atom is

A

Unity

B

negative

C

1

D

Zero

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Q41

The formation of acid anhydride from carboxylic acid is a_____?

A

Dehydration reaction

B

Condensation reaction

C

Both a and b

D

None of these

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Q42

In the reaction; $\text{Zn} + \text{CuSO}_4 \rightarrow \text{ZnSO}_4 + \text{Cu}$, Which of the following change shows that redox reaction takes place at once ?

A

Blue color appears

B

Blue color disappears

C

Temperature of the surrounding decreases

D

None of these

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Q43 which of the following does not have sp^2 hybridized orbital

A acetone

B acetonitrile

C acetic acid

D acetamide

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Q44 ΔH_f° of which of the following can not be measured directly?

A Al_2O_3

B B_2O_3

C CO

D All of these

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Q45

Which of the following alkyl halide is most reactive towards Mg atom?

A

Alkyl bromide

B

Alkyl fluoride

C

Alkyl chloride

D

Alkyl iodide

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Q46

Alkali and alkaline earth metals impart colours when heated over the burner, it is due to

A

Smaller electronegativity of alkali metals

B

The smaller ionic radius of these metals

C

De-excitation of electrons from higher energy levels to low energy level

D

Excitation of electrons from low energy levels to higher energy levels

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Q47

Alkenes have which type of hybridization?

A

 sp^2

B

 sp^5

C

 sp^2d

D

 sp

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Q48

Higher order reactions has half-life

A

same as first order

B

Different from first order reactions

C

Directly proportional to Concentration of reactants

D

None of these

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Q49

In Which of the following reaction of carboxylic acids only C=O group involved in bonding and OH group is replaced ?

A

Reaction of carboxylic acid with NaOH

B

Reaction of carboxylic acids with Carbonate

C

Formation of anhydride

D

Reaction of carboxylic acids with SOCl_2

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Q50

The electronegativity difference of the elements can be related to the following property of bonds

A

dipole moment

B

bond energies

C

both A & B

D

none of these

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Q51 Half-life period for a first order reaction is independent of

A Conditions of temperature

B Initial Concentration of the compound

C Presence of Catalyst

D All of these

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Q52

Proteases enzyme are example of:

A

Lyases

B

Hydrolases

C

Ligases

D

Transferases

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Q53

At which temperature water has maximum density?

A

2°C

B

4°C

C

0°C

D

<0°C

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Q54

The covalent crystals having giant molecules are insoluble in all the solvents

A

Silicone carbide

B

diamond

C

both A & B

D

none of these

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Q55

Half life of a radiation active element is that period in which half of the atoms

A

diffuse

B

decompose

C

disturbed

D

decay

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Q56

The angular displacement is assigned positive sign when the rotation is

A

Clockwise

B

Anti-clockwise

C

perpendicular

D

parallel

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Q57

Joule - second is the unit of:

A

Energy

B

Heat

C

Work

D

Planck's constant

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Q58

Which surface will reflect more light

A

silver painted

B

black painted

C

brown painted

D

black painted

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Q59

The basic reason why a full wave rectifier has twice efficiency than half wave rectifier because

A

it uses transformer

B

its ripple factor is much less

C

it uses both cycle as input

D

Output frequency is double the line frequency

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Q60

The SI unit of electric intensity is:...

A

volt / meter

B

newton / meter

C

tesla

D

coulomb / meter

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Q61

During the circular path in magnetic field, what is the magnetic force

A

$$F = qB$$

B

$$F = qB^2$$

C

$$F = qB/v$$

D

$$F = qvB$$

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Q62

Critical angle is the angle of incidence in the denser medium for which the angle of refraction in the rarer medium is equal to:...

A

0 deg

B

angle of incidence

C

twice the angle of incidence

D

90 deg

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Q63

If alpha, beta, and gamma rays carry the same momentum, which has the longest wavelength?

A

alpha rays

B

beta rays

C

gamma rays

D

all have same wavelength

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Q64

If a force of 2 N is applied on charge of Coulomb, the electric field becomes

A

$3/2$ N/C

B

$2/3$ N/C

C

$1/2$ N/C

D

none of these

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Q65

Michelson's interferometer works on the principle of:

A

interference of light

B

refraction of light

C

reflection of light

D

diffraction of light

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Q66

If the velocity of an object is increasing with time then acceleration is

A

negative

B

positive

C

zero

D

none of the above

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Q67

A three dimensional image is achieved by scanning the surface with a focused beam of electrons

A

SEM

B

TEM

C

XRD

D

none of these

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Q68

Static charge always creates

A

electric field and magnetic field

B

electromagnetic wave

C

electric field

D

Both a) and b)

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Q69

Principle of electric generator is based on

A

biot savart's law

B

ampere's law

C

newton's law

D

faraday law

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Q70

The molar specific heat of a diatomic gas is measured at constant volume and found to be $29.1 \text{ J/mol} \cdot \text{K}$. What are the types of energy that are contributing to the molar specific heat?

A

translation only

B

translation and rotation only

C

translation and vibrational only

D

translation, rotation, and vibrational

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Q71

For angular acceleration clockwise rotations means torque is

A

positive

B

negative

C

zero

D

infinite

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Q72

1 joule is equal to

A

 10^4 erg

B

 10^5 erg

C

 10^6 erg

D

 10^7 erg

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Q73

When bulb is turned on, ohm's law is applicable

A

Yes

B

No

C

partly

D

None of these

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Q74

Transformation ratio of transformer is given by

A

 V_s/V_p

B

 I_p/I_s

C

 N_s/N_p

D

all of these

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Q75

The distance and displacement can be equal if....

A

an object moves on a circular path

B

an object oscillates

C

an object moves in a straight line

D

an object moves on a parabolic path

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Q76

PD stands for

A

Potential difference

B

Potential deviation

C

Power difference

D

Power dissipated

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Q77

What is the angular frequency during the circular motion?

A

 qm/B

B

 m/qB

C

 qB/m

D

 qmB

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Q78

An angular velocity of 60 revolutions per minute is the same as:

A

 $\frac{1}{2}\pi \text{ rad/s}$

B

 $120\pi \text{ rad/s}$

C

 $30/\pi \text{ rad/s}$

D

 $2\pi \text{ rad/s}$

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Q79

The condition for the validity of Ohm's law is that the

A

Temperature should remain constant

B

Current should be proportional to voltage

C

Resistance must be wire wound type

D

All of the above

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Q80

A body moves a distance of 10 m along a straight line under the action of 5 N force. If work done is 25 J, then angle between the force and direction of motion of the body will be:

A

75°

B

60°

C

45°

D

30°

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Q81

The Davisson Germer experiment is used to explain

A

interference

B

polarization

C

diffraction

D

none of these

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Q82

In medical scanning _____ rays are used

A

photon

B

x

C

beta

D

white

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Q83

white light gives spectrum after occurring

A

diffraction

B

interference

C

reflection

D

all of these

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Q84

The points which are in phase are separated from one another through a distance of :

A

1 wavelength

B

1.5 wavelength

C

0.5 wavelength

D

2.5 wavelength

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Q85

Consider a charge q is placed in a region where both electric and magnetic fields are present. The charge will experience:...

A

both electric and magnetic forces

B

only electric force

C

only magnetic force

D

no force at all

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Q86

According to Wien's law temperature and wavelength are ____ related

A

equal

B

inversely

C

directly

D

none of these

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Q87

How many quarks in electron

A

0

B

1

C

2

D

3

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Q88

Transistors can be used as

A

half wave rectifier

B

full wave rectifier

C

both

D

none of these

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Q89

When a particle is launched at angle 90 degree with respect to horizontal then vertical acceleration is

A

-9.8 m/s²

B

9.8 m/s²

C

0

D

5 m/s²

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Q90

Michelson's interferometer is an instrument that can be used to measure:

A

speed

B

frequency

C

distance

D

amplitude

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Q91

The Na atom cannot produce x-rays because

A

inner shell transition is possible

B

inner shell transition is not possible

C

it is non radioactive

D

none of these

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Q92

Ohm's law is valid when the temperature of conductor is :

A

very low

B

very high

C

varying

D

constant

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Q93

Most widely used rectifier is

A

half wave rectifier

B

full wave rectifier

C

bridge rectifier

D

none of them

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Q94

If the magnitude of charges on two point objects and the distance between them is doubled, then force will be:...

A

two times

B

four times

C

unchanged

D

halved

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Q95

Magnetic field is very strong where field lines are

A

zero

B

far apart

C

very close

D

none of these

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Q96

100 W heater is used for 5 minutes to heat some water from 20°C to 50°C. What is the mass of water which is heated? Specific heat capacity of water is 4.2 J/g°C.

A

4 g

B

40 g

C

240 g

D

24 g

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Q97

A force $F = (0.5x + 10)$ N acts on a particle, calculate the work done by the force in displacing particle from $x=0$ to $x=2$ m

A

20 J

B

21 J

C

22 J

D

23 J

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Q98

A particle radioisotope has a half life of 5 days. In 15 days the probability of decay in percentage will be

A

67 %

B

87.5 %

C

82.5 %

D

77 %

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Q99

In a periodic wave, the distance between a crest and the next consecutive trough is 15 cm. What is the wavelength of the wave?

A

10 cm

B

5 cm

C

7.5 cm

D

30 cm

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Q100

What will be the de - Broglie wavelength when the kinetic energy of the electron increases by 5 times?

A

 $\sqrt{5}$

B

5

C

 $1/\sqrt{5}$

D

 $1/5$

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Q101

Electrical power is given by $P=$

A

 VI

B

 $I^2 R$

C

 V^2 / R

D

all

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Q102

Which one of the following is not found in a DC generator?

A

armature

B

slip rings

C

Commutators

D

magnets

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Q103

Which set of elements have three isotopes

A

O,H

B

O,Cl

C

Cl,Hg

D

All of them

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Q104

The good absorbers of heat normally are

A

poor conductor

B

good conductor

C

poor reflector

D

none of these

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Q105

A full wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A

100 Hz

B

25Hz

C

50Hz

D

200Hz

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Q106

In mixed inhibition, the allosteric affect effects

A

shape of substrate

B

shape of inhibitor

C

shape of enzyme

D

none of these

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Q107

The name animal is derived from what word?

A

Aname

B

Anemia

C

Anima

D

none of these

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Q108

The area on the left hemisphere related to speech is called?

A

Amygdala

B

Broca's area

C

hypothalamus

D

occipital lobe

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Q109

Higher turgor pressure in a plant cell is maintained by?

A

Higher ionic concentration inside vacuoles

B

Higher osmotic pressure of the cell vacuole

C

Large number of vacuoles in a plant cell

D

both a and b

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Q110

Where the heterozygote is indistinguishable from one of the homozygotes the allele involved is said to be?

A

recessive

B

dominant

C

both a and b

D

none of these

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Q111

Which of the following is not respiration?

A

Breakdown of glucose

B

Formation of glucose

C

Release of energy

D

Exchange of gases

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Q112

Mating between relatives is called which of the following?

A

ex breeding

B

breeding

C

inbreeding

D

outbreeding

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Q113

Centipedes belong to class _____ of arthropoda.

A

Arachnida

B

Insecta

C

Cephalopoda

D

Myriapoda

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Q114

Amoeboid movements and movement of cyclosis is due to?

A

microfilaments

B

microtubules

C

intermediate filaments

D

cytoskeleton

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Q115

What percentage of protein is found in the cell membrane?

A

20-4-

B

40-50

C

60-80

D

90

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Q116

Bottlenecks increases the affect of which of the following?

A

genetic linkage

B

genetic expression

C

genetic diversity

D

gene pool

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Q117

A surfactant is essential for:

A

efficient gas exchange

B

maintaining structural integrity of alveoli

C

Both A and B

D

None of these

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Q118

Which factors affect the female reproductive cycle?

A

Malnourishment

B

emotional stress

C

Both A and B

D

None of these

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Q119

Smallpox was caused by which virus?

A

Adenovirus

B

Pox virus

C

influenza Virus

D

variola virus

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Q120

Antibodies can be digested by using which of the following types of enzymes?

A

Lipase

B

Protease

C

Amylase

D

Polymerase

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Q121

Reverse transcriptase is a useful enzyme to have when

A

RNA virus converts its RNA to DNA

B

there are no host cells present

C

nutrients are scarce

D

spikes are forming in the new virus

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Q122

Second largest phylum of invertebrates is which of the following?

A

Porifera

B

Arthropoda

C

Chordata

D

Mollusca

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Q123

Homozygous chromosomes include which of the following?

A

diploid cells

B

polyploid cells

C

both a and b

D

none of these

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Q124

Sertoli cells are responsible for which of the following?

A

Provide liquid medium to cells in testes

B

Provide protection and nourishment to cells

C

Secrete testosterone

D

both a and b

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Q125

Skeletal muscle is composed of cells collectively referred to as

A

Muscle fibrin

B

Muscle fibers

C

Sarcomere

D

None of these

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Q126

If we add more substrate to already occurring enzymatic reaction and it has no affect on the rate of reaction, the process is called?

A

denaturation

B

saturation

C

composition

D

inhibition

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Q127

Which of the following characteristics make plasmid DNA useful for researchers?

A

Readily incorporate cloned DNA

B

Capable of autonomous replication

C

Capable of being isolated from genomic DNA

D

all of these

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Q128

The enzyme which plays important role in HIV pathogenesis

A

RNA polymerase I

B

DNA polymerase II

C

Reverse Transcriptase I

D

Reverse Transcriptase

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Q129

Maximum capacity of hemoglobin to absorb oxygen is:

A

19.6ml/100 ml blood

B

20 ml/100 ml blood

C

25 ml/100 ml blood

D

30 ml/100 ml blood

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Q130

What are parts of Lamarck's theory of evolution?

A

Individuals lose traits that they don't need

B

Acquired characteristics are heritable

C

Individuals gain characteristics they need

D

All of these

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Q131

One of these animals is a prototherian.

A

Alligator

B

Penguin

C

Porcupine

D

Spiny anteater

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Q132

What is the length of duodenum in cm?

A

15-20

B

20-25

C

21-25

D

25-30

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Q133

A human female produce how many oocytes in each of her ovary?

A

30000

B

200000

C

300000

D

20000

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Q134

What is produced in the muscle cells during extreme physical activity?

A

Acetyl coA

B

alcohol

C

lactic acid

D

all of these

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Q135

Human testes are packed with how many seminiferous tubules?

A

200

B

300

C

500

D

600

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Q136

Enzymes for light-dependent reactions of photosynthesis would most likely be associated with:

A

Outer membrane of the chloroplast

B

Inner membrane of the chloroplast

C

Stroma of the chloroplast

D

Thylakoid membranes of the chloroplast

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Q137

The simplest form of learning is?

A

latent learning

B

imprinting

C

insight

D

habituation

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Q138

Which of the following part of the cell is described as a fluid mosaic?

A

chloroplast

B

vacuole

C

cell membrane

D

ER

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Q139

How many pair of ribs are present in chest wall?

A

10

B

11

C

12

D

13

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Q140

The spinal cord and spinal nerve roots are wrapped within three layers called:

A

Pleura

B

Synovial

C

Synapse

D

Meninges

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Q141

Which of the following is involved in the conversion of fats to carbohydrates by oxidation of fats?

A

peroxisomes

B

microsomes

C

lysosomes

D

glyoxysomes

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Q142

Diameter of thick filament is approximately how many nm?

A

15

B

16

C

17

D

18

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Q143

What type of genetic transfer was displayed in the Frederick Griffith experiment?

A

transduction

B

transformation

C

binary fission

D

conjugation

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Q144

Homology means

A

similiary in characteristics resulting from common ancestors

B

similarity in function from acquired characterists

C

study of similar organs but with different functions

D

study of similar ograms but with different functions

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Q145

Cooperation of the two photosystems of the chloroplast is required for___

A

ATP synthesis

B

reduction of NADP

C

cyclic photophosphorylation

D

oxidation of the reaction center of photosystem I

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Q146

A gas absent during pre-biotic environment was

A

 SO_2

B

 CO_2

C

 NH_3

D

 H_2

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Q147

A certain type of plant is only tall when it has a heterozygous genotype. If two heterozygous plants are crossed, what is the probability their offspring will also be tall?

A

25%

B

50%

C

75%

D

1

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Q148

Nerve cells transmit messages faster when they have:

A

Many dendrites

B

Many genes

C

Non-myelinated axons

D

Myelinated axons

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Q149

Mantle in molluscs is present over which of the following regions?

A

head

B

dorsal muscular foot

C

dorsal visceral foot

D

both a and b

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Q150

Which of the following scenarios gives both sons and daughters the SAME probability of being born with a disease?

A

The disease is X-linked dominant. A heterozygous mother is crossed with a healthy father.

B

The disease is X-linked dominant. A heterozygous mother is crossed with a father with the disease.

C

The disease is X-linked recessive. A mother with the disease is crossed with a healthy father.

D

The disease is X-linked recessive. A heterozygous mother is crossed with a healthy father.

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Q151

Amount of oxygen in inspired air is 21 % while in expired air is

A

0.11

B

0.12

C

0.15

D

0.16

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Q152

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A

iron

B

zircon

C

diamond

D

cadmium

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Q153

Breathing and heart rate is controlled by which of these?

A

Corpus callosum

B

Hippocampus

C

Medulla

D

Thalamus

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Q154

In humans, fertilization involves the addition of chromosomes from the sperm and the egg. The resulting cell is called a?

A

zygote

B

egg

C

embryo

D

fetus

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Q155

Your neighbor has a flower garden in which there are red flowers and white flowers. These flowers are diploid organisms, and flower color is an autosomal trait. The gene for red flowers (R) is dominant, while the gene for white flowers (r) is recessive. Which of the following is the genotype of a white flower?

A

 RR

B

 Rr

C

 rR

D

 rr

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Q156

Which of the following are the part of functional classification?

A

Ellipsoidal

B

Gomphosis

C

Syndesmosis

D

None of these

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Q157

The only promoter of leaf senescence in the following plant hormones is?

A

gibberellins

B

cytokinins

C

auxins

D

abscisic acid

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Q158

What is not true about enzyme?

A

The K_{eq} of a reaction remains unchanged in the presence of an enzyme

B

Enzymes speed up the rate of reaction in DNA synthesis

C

Harsh, acidic conditions can completely denature an enzyme

D

An enzyme is completely converted to product during metabolism

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Q159

Growth and development of plant cells is the role of?

A

parenchymatous cells

B

chlorenchymatous cells

C

meristematic cell

D

sclerenchymatous cells

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Q160

Ketone is synthesized in

A

Adipose tissue

B

Liver

C

Muscles

D

Brain

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Q161

An animal has 80 chromosomes in its gametes, how many chromosomes will be seen in the animal's muscle cells?

A

120

B

240

C

40

D

160

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Q162

Functions of enzymes include all of the following except which of the following?

A

lessening the time required for a reaction to take place

B

shifting substrates into more favorable positions in the active site

C

decreasing the activation energy of a reaction

D

shifting the equilibrium of a reaction

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Q163

The function of a viral capsid is?

A

protection against the viral genome from physical and enzymatic destruction

B

providing binding sites that enable the virus to attach to specific receptor sites on the host cell

C

serving as a vehicle of transmission from one host to another

D

all of the above

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Q164

The animals which belongs to division Radiata is/are?

A

triploblastic

B

diploblastic

C

radioblast

D

all of these

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Q165

I borrowed ____ pencil from your pile of pencils and pens.

A

a

B

an

C

the

D

no article

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Q166

Choose the correct sentence.

A

Belgium and france fought over who would host the olympic games?

B

Belgium and France fought over who would host the Olympic Games.

C

Belgium and France: fought over who would host the Olympic Games!

D

Belgium and France fought over who would host the olympic games.

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Q167

Measles _____ a contagious childhood disease

A

is

B

are

C

were

D

be

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Q168

Choose the correct spelling of the word

A

something

B

somthing

C

sumthing

D

sumthin

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Q169

With this _____ I can get to the roof of the house.

A

index

B

lager

C

ladder

D

step

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Q170

Choose the correct spelling of the word

A

prettiest

B

prettyest

C

pretiest

D

preetiest

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Q171

Either of the two dresses shall _____ good.

A

looking

B

look

C

looks

D

looked

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Q172

how are

A

howre

B

howr'e

C

ho'wre

D

how're

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Q173

One of the students said, " ____ professor is late today."

A

A

B

An

C

The

D

no article

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Q174

A ship (A)/ laden with merchandise (B)/ got drowned (C)/ in the Pacific Ocean. (D)

A

A ship

B

laden with merchandise

C

got drowned

D

in the Pacific Ocean.

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Q175

The Prime Minister is a very _____ man. Everyone follows his orders.

A

powerful

B

circular

C

direct

D

painful

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Q176

Choose the correct type of tense. "We will visit the museum"

A

Present

B

Past

C

Future

D

None

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Q177

The _____ chosen for the construction of the building is in the heart of the city.

A

cite

B

slight

C

sight

D

site

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Q178

Sit down.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

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Q179

Wait a minute please, he _____ on the phone.

A

talking

B

is talking

C

talks

D

is talks

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Q180

It _____ (rain) since last night, and it looks as if it may rain all day.

A

raining

B

is raining

C

has been raining

D

rained

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Q181

The children as well as their mother _____ missing after the floods.

A

is

B

are

C

was

D

were not

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Q182

_____ ozone layer will disappear if we don't find _____ way to save it.

A

The...the

B

The...an

C

The...a

D

A... a

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Q183

Statement: The private medical colleges have increased the tuition fees in the current year by 200 per cent over the last year's fees to meet the expenses. The government medical colleges have not increased their fees in spite of price escalation.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause

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Q184

If a computer has more than one processor then it is known as ?

A

Uni-process

B

Multiprocessor

C

Multi-threaded

D

Both A and B

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Q185

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q185

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q185

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q186

Statement: The prices of petrol and diesel in the domestic market have remained unchanged for the past few months. The crude oil prices in the international market have gone up substantially in the last few months.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

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Q187

Statement Should religion be banned? Arguments (I) Yes. It develops fanaticism in people. (II) No, Religion binds people together.

A

Only argument I is strong

B

Only argument II is strong

C

Either I or II is strong

D

Neither I nor II is strong

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Q188

A book always has

A

Pages

B

Contents

C

Chapter

D

Images

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Q189

1: All clocks are watches. 2: Some clocks are alarms. Conclusion: I: Some Alarms are watches. II: All watches are alarm.

A

Only conclusion (I) follows

B

Only conclusion (II) follows

C

Both conclusions follow

D

Neither conclusion (I) nor conclusion (II) follows

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Q190

Language with the most alphabets is _____

A

French

B

Chinese

C

Portuguese

D

Urdu

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Q191

The reactivity of alkenes is due to the presence of?

A

Sigma bond

B

Two Pi bond

C

One Pi bond

D

Due to electrophilic nature

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Q192

Which of the following reaction of carbonyl system is used to distinguish between carbonyl system from alcohols?

A

Cyanohydrin formation

B

Bisulfite adduct formation

C

Haloform formation

D

None of these

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Q193

Find angular acceleration when $\Delta\omega$ is 250 rpm and Δt is 5.00 s.

A

5.24 rad/sec²

B

6 rad/sec²

C

10 rad/sec²

D

none of these

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Q194

The enzyme-substrate complex is formed in which part of the enzyme molecule?

A

Binding site

B

Allosteric site

C

Catalytic site

D

None of the above

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Q195

The pair of salivary glands located behind the jaws is called:

A

Sublingual gland

B

Submaxillary glands

C

parotid glands

D

adrenal glands

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Q196

A man move a roller through a distance of 20 m. 10 N of applied force is inclined at 60 degree of direction of motion what will be the work done by the man

A

100 J

B

50 J

C

-100 J

D

-50 J

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Q197

Which of these are coinage metals ?

A

Au

B

Ag

C

Cu

D

All of these

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Q198

To walk, biking and driving are Pat's favorite ways of getting around.

A

To walk, biking, and driving

B

Walking, biking, and driving

C

To walk, biking, and to drive

D

Walking, biking, and to drive

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Q199

Which type of forces are present between acetone and chloroform?

A

H-bonding

B

Dipole-Dipole forces

C

London dispersion forces

D

Debye forces

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Q200

In general Photochemical reactions are of order

A

1

B

3

C

2

D

0

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Q201

Acetic acid is also named as_____?

A

Propanoic acid

B

Butanoic acid

C

Ethanoic acid

D

Methanoic acid

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Q202

Amount of heat supplied to 0.02 kg of nitrogen to raise its temperature by 45 degree is

A

935J

B

934J

C

967J

D

954J

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Q203

Somatic cells of humans have how many pairs of chromosomes in total?

A

10

B

23

C

24

D

48

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Q204

These are biologically active proteins____

A

glycoprotein

B

enzymes

C

activators

D

inhibitors

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Q205

Placenta is important as its function is to:

A

exchange oxygen

B

exchange carbon dioxide

C

exchange nutrients

D

All A,B and C are correct

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Q206

The graph that shows relative effectiveness of different wavelengths in photosynthesis is?

A

actin spectrum

B

action spectrum

C

absorption spectrum

D

emission spectrum

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Q207

The frogs in the garden _____ very loudly.

A

croak

B

croaks

C

croaking

D

cracked

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Q208

In humans, fertilization involves the addition of chromosomes from the sperm and the egg. The resulting cell is called a?

A

zygote

B

egg

C

embryo

D

fetus

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Q209

If '-' means '+', '+' means '-', '*' means '÷' and '÷' means '*' then which of the following will be the correct equation?

A

$$30 + 5 + 14 - 10 * 15 = 122$$

B

$$10 + 5 - 14 \div 10 * 15 = 158$$

C

$$30 - 5 + 14 \div 10 * 15 = 162$$

D

$$30 * 5 - 4 \div 10 + 15 = 31$$

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Q210

Statement A smoker has left smoking suddenly a. He will feel restlessness and anxiety. b. He will start gaining weight

A

Both of them follows

B

None of them follows

C

Only b follows

D

Only a follows

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